

REWRITING BASH TO PYTHON

we are quite near to the finish





A CHE PUNTO SIAMO?

- Lo script allo stato attuale dei fatti ha la sua infrastruttura nel complesso funzionante
- la classe loadmodule funziona egregiamente
 - con l'interfaccia comune
- la classe job, anch'essa funziona
 - e ha un interfaccia comune



A CHE PUNTO SIAMO?

- l'allocazione del sito viene fatta in maniera dinamica tramite il "retrieve" della variabile `ogs_site_name` o `site_name`
- è stato scritto il prototipo del file manager
 - è stata fatta un importante scoperta: le `lcg-util` si portano dietro delle classi python native da poter chiamare!!!



DUE CONSIDERAZIONI

Site allocation

```
06/06/2011 01:59.30 - 405 - SiteSection.getSiteName - DEBUG - This site is a OSG site its name is: VICTORIA-LCG2
06/06/2011 01:59.30 - 405 - SiteSection.getSiteName - DEBUG - This site is a OSG site its name is: VICTORIA-LCG2
06/06/2011 01:59.30 - 624 - LoadModule.loadModule - DEBUG - ./support24/site_modules
06/06/2011 01:59.30 - 632 - LoadModule.loadModule - DEBUG - ('victoria-lcg2', '.py')
06/06/2011 01:59.30 - 636 - LoadModule.loadModule - DEBUG - file trovato: victoria-lcg2.py
06/06/2011 01:59.30 - 638 - LoadModule.loadModule - DEBUG - support24/site_modules/victoria-lcg2.py
06/06/2011 01:59.30 - 641 - LoadModule.loadModule - DEBUG - module name: victoria-lcg2
06/06/2011 01:59.30 - 642 - LoadModule.loadModule - DEBUG - extention of file founded: .py
06/06/2011 01:59.30 - 643 - LoadModule.loadModule - DEBUG - expeted ClassName: Victoria_lcg2
06/06/2011 01:59.30 - 20 - Victoria_lcg2.__init__ - DEBUG - general site init
06/06/2011 01:59.30 - 9 - Victoria_lcg2.__init__ - DEBUG - Victoria_lcg2 site init
```




DUE CONSIDERAZIONI

Job allocation

06/06/2011 01:59.30 - 624 - LoadModule.loadModule - DEBUG - ./support24/job
06/06/2011 01:59.30 - 632 - LoadModule.loadModule - DEBUG - ('fast', '.py')
06/06/2011 01:59.30 - 636 - LoadModule.loadModule - DEBUG - file trovato: fast.py
06/06/2011 01:59.30 - 638 - LoadModule.loadModule - DEBUG - support24/job/fast.py
06/06/2011 01:59.30 - 641 - LoadModule.loadModule - DEBUG - module name: fast
06/06/2011 01:59.30 - 642 - LoadModule.loadModule - DEBUG - extention of file founded: .py
06/06/2011 01:59.30 - 643 - LoadModule.loadModule - DEBUG - expeted ClassName: Fast
06/06/2011 01:59.30 - 15 - Fast.__init__ - DEBUG - General Job init
06/06/2011 01:59.30 - 30 - Fast.__init__ - DEBUG - Fast Job init



IL REST?

Rest Ability

```
06/06/2011 01:58.40 - 437 - RestObj.__init__ - DEBUG - init RestObj
06/06/2011 01:58.40 - 445 - RestObj.__init__ - DEBUG - ('https', 'bbr-serv09.cr.cnaf.infn.it', '/restcert/Fast_Job/2010_Favaro/100065', '', '')
06/06/2011 01:58.40 - 450 - RestObj.__init__ - DEBUG - bbr-serv09.cr.cnaf.infn.it
06/06/2011 01:58.40 - 451 - RestObj.__init__ - DEBUG - /restcert/Fast_Job/2010_Favaro/100065
06/06/2011 01:58.40 - 453 - RestObj.__init__ - DEBUG - use the cert: True
06/06/2011 01:58.40 - 455 - RestObj.__init__ - DEBUG - creo connessione
06/06/2011 01:58.40 - 475 - RestObj.getProxyPath - DEBUG - the path to the proxy is: /Users/Matteo/Documents/workspace/SuperB/Script python/src/x509up_u34070
06/06/2011 01:58.40 - 475 - RestObj.getProxyPath - DEBUG - the path to the proxy is: /Users/Matteo/Documents/workspace/SuperB/Script python/src/x509up_u34070
06/06/2011 01:58.40 - 485 - RestObj.restIsAvaible - DEBUG - checking availability of: https://bbr-serv09.cr.cnaf.infn.it/restcert/Fast_Job/2010_Favaro/100065
06/06/2011 01:58.40 - 496 - RestObj.restIsAvaible - DEBUG - ['HEAD /restcert/Fast_Job/2010_Favaro/100065 HTTP/1.1', 'Host: bbr-serv09.cr.cnaf.infn.it:8080', 'Accept-Encoding: identity', 'Accept: */*', 'Accept-Encoding: *,deflate', 'TE: trailers,deflate', 'User-Agent: Jobscript - created By Matteo Favaro', 'Connection: TE,Keep-Alive']
06/06/2011 01:58.40 - 499 - RestObj.restIsAvaible - DEBUG - Sending request
06/06/2011 01:58.40 - 501 - RestObj.restIsAvaible - DEBUG - [('date', 'Sun, 05 Jun 2011 23:58:39 GMT'), ('connection', 'close'), ('x-powered-by', 'PHP/5.3.6'), ('content-type', 'text/html; charset=utf-8'), ('server', 'Apache/2.2.3 (Scientific Linux))']
06/06/2011 01:58.40 - 502 - RestObj.restIsAvaible - DEBUG - REPLY STATUS: 200
06/06/2011 01:58.40 - 503 - RestObj.restIsAvaible - DEBUG - REPLY REASON: OK
06/06/2011 01:58.40 - 505 - RestObj.restIsAvaible - DEBUG - ok
```




LCG-UTIL MANAGER

Prototype

```
class LcgUtil(AbstractScriptObjs):
    def __init__(self, site):
        super(LcgUtil, self).__init__()
        self.site = site
        try:
            import lcg_util
            self.usePythonlib = True
            self.logger.info('Python lib for lcg util are used')
        except Exception, e:
            self.usePythonlib = False
            self.logger.info('Python lib for lcg util is not
present the command are use')
        .
        .
        .

    def _pyLcg_rf_out(self, lfn):
        #lcg-rf -v --vo superbvo.org -D srmv2 -l "${lfn}" "srm://${SHORTSRM_PRODRROOT}/${se}"
        pass
    ##lcg-rf - register in the LRC a file residing on an SE: SHORTSRM_PRODRROOT
    def _nopyLcg_rf_out(self, lfn):
        #lcg-rf -v --vo superbvo.org -D srmv2 -l "${lfn}" "srm://${SHORTSRM_PRODRROOT}/${se}"
        pass
        .
        .
        .
```